

Converting Colors

$Y_{xy}(20.9876, 0.2767, 0.1786)$

Have a look what the booklet for
Yxy(20.9876, 0.2767, 0.1786)
contains.

Yxy(20.9560, 0.2769, 0.1785)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.9560, 0.2769, 0.1785)

Conversions

Conversions Part 1

Format	Color
Hex	AC5BD3
RGB	172, 91, 211
RGB Percent	67%, 36%, 83%
CMY	0.3255, 0.6431, 0.1727
CMYK	0.18, 0.57, 0.00, 0.17
HSL	281°, 58%, 59%
HSV	281°, 57%, 83%
XYZ	32.5082, 20.9560, 63.9363
YIQ	128.8990, 9.7560, 54.4920

Conversions

Conversions Part 2

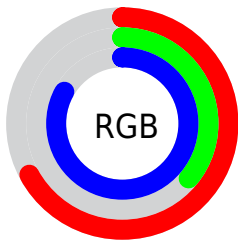
Format	Color
RYB	172, 91, 211
Decimal	11295699
CIELab	52.90, 52.68, -48.68
CIELCh	53, 71.729, 317.257
Yxy	20.9560, 0.2769, 0.1785
Android (android.graphics.Color)	4289485779 (0xFFAC5BD3)
YUV	128.8990, 40.4758, 37.7996
Hunter-Lab	45.7777, 46.6475, -50.7641

Details

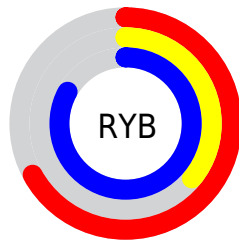
The Yxy color **20.9560, 0.2769, 0.1785** is a light color, and the websafe version is hex **9966CC**. The color can be described as light muted purple. A complement of this color would be **52.0712, 0.3287, 0.4979**, and the grayscale version is **21.7708, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.9895, 0.2965, 0.2151**, and **7.4995, 0.2594, 0.1400** is the 20% darker color. If you saturate the color by 10%, you get **17.0866, 0.2682, 0.1554**, and if you desaturate by 10%, it is **25.8807, 0.2851, 0.2043**.

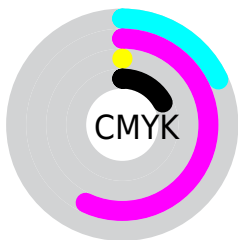
Distribution



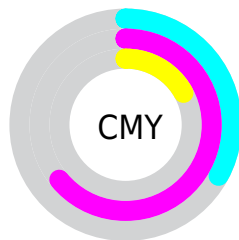
- Red (67%)
- Green (36%)
- Blue (83%)



- Red (67%)
- Yellow (36%)
- Blue (83%)



- Cyan (18%)
- Magenta (57%)
- Yellow (0%)
- Black (17%)





- Cyan (33%)
- Magenta (64%)
- Yellow (17%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.9560, 0.2769, 0.1785 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 20.9560, 0.2769, 0.1785 by changing the saturation by 10% instead.


 20.9560, 0.2769,
0.1785

 20.9560, 0.2769,
0.1785


257.0446, 0.2993,
0.2522


 13.0918, 0.2700,
0.1613


 45.0143, 0.2861,
0.2045

 7.4918, 0.2603,
0.1403


 61.9772, 0.2892,
0.2145

 3.7715, 0.2464,
0.1142


 82.7419, 0.2918,
0.2231

 1.5466, 0.2253,
0.0823

 107.6926, 0.2938,
0.2305

 0.3212, 0.1940,
0.0339

137.2139, 0.2956,
0.2370

 0.0000, 0.1311,
0.0000

171.6900, 0.2970,

 0.0000, 0.0000,

0.2427

0.0000

211.5054, 0.2983,
0.2477

■ 20.9560, 0.2769,
0.1785

■ 20.9560, 0.2769,
0.1785

■ 17.0866, 0.2682,
0.1554

■ 25.8807, 0.2851,
0.2043

■ 14.1821, 0.2594,
0.1362

■ 31.9360, 0.2925,
0.2315

■ 12.1404, 0.2506,
0.1217

■ 39.1931, 0.2992,
0.2592

■ 10.8275, 0.2422,
0.1120

■ 47.7166, 0.3049,
0.2863

■ 10.4905, 0.2397,
0.1094

■ 57.5663, 0.3098,
0.3122

■ 68.7983, 0.3139,
0.3364

■ 81.4652, 0.3173,
0.3588

■ 92.5239, 0.3205,
0.3747

■ 93.6595, 0.3248,
0.3740

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



20.9560, 0.1817, 0.1554



20.9560, 0.2769, 0.1785



20.9560, 0.4096, 0.2285

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



20.9560, 0.2769, 0.1785



20.9560, 0.5080, 0.4574



20.9560, 0.1345, 0.3108

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



20.9560, 0.2769, 0.1785



52.0712, 0.3287, 0.4979

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



20.9560, 0.1990, 0.4687



20.9560, 0.2769, 0.1785



20.9560, 0.4126, 0.5426

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



20.9560, 0.2769, 0.1785



20.9560, 0.5579, 0.3722



20.9560, 0.3018, 0.5705



20.9560, 0.1150, 0.2070

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



20.9560, 0.2769, 0.1785



20.9560, 0.4935, 0.2726



20.9560, 0.3018, 0.5705



20.9560, 0.1506, 0.3603

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



20.9568, 0.2769, 0.1785



72.8184, 0.3048, 0.2854



23.1587, 0.2157, 0.2065



14.9854, 0.3036, 0.2800



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.9568, 0.2769, 0.1785



25.2915, 0.2666, 0.1515



25.0890, 0.3416, 0.2143



11.8086, 0.3087, 0.3057



6.3908, 0.2409, 0.1101



0.3992, 0.2559, 0.1183

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



22.9398, 0.4260, 0.2822



29.0674, 0.4652, 0.2770



49.9441, 0.2944, 0.4826



11.8707, 0.3240, 0.3215



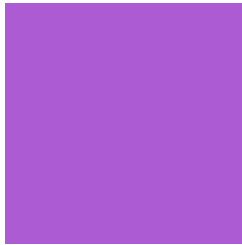
8.6305, 0.5655, 0.2889



0.4970, 0.5131, 0.2600

Previews

White Background



This preview shows how the Yxy color 20.9560, 0.2769, 0.1785 looks on a white background.

Color Contrast Check

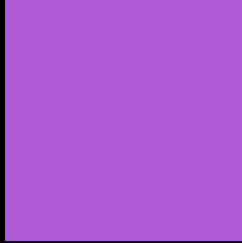
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

Black Background



This preview shows how the Yxy color 20.9560, 0.2769, 0.1785 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

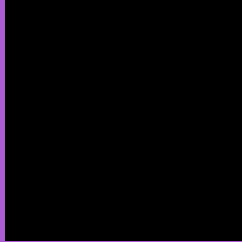
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 20.9560, 0.2769, 0.1785

Background



This preview shows how black text looks on a background with the Yxy color 20.9560, 0.2769, 0.1785.



This preview shows how white text looks on a background with the Yxy color 20.9560, 0.2769, 0.1785.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

20.9560, 0.2769, 0.1785

Protanopia

21.5065, 0.1870, 0.1614

Deuteranopia

21.2877, 0.2119, 0.2062



Tritanopia

20.7338, 0.3594, 0.3145

Trichromacy



Original Color

20.9560, 0.2769, 0.1785

Protanomaly

19.8477, 0.2057, 0.1610

Deuteranomaly

20.1170, 0.2285, 0.1898

Tritanomaly

20.4612, 0.3263, 0.2551

Monochromacy



Original Color

20.9560, 0.2769, 0.1785

Achromatopsia

21.9526, 0.3127, 0.3290

Achromatomaly

20.7844, 0.2993, 0.2585

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.9560, 0.2769, 0.1785 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(172, 91, 211)` looks like.

```
.text, #text, p{  
    color:rgb(172, 91, 211)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(172, 91, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 91, 211) }
```

Border

The CSS property to change the border of an element to Yxy 20.9560, 0.2769, 0.1785 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(172, 91, 211) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(172, 91, 211) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(172, 91, 211) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 91, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 91, 211);  
box-shadow:4px 4px 4px 4px rgb(172, 91,  
211) }
```


Background

The CSS property to change the background color of an element to Yxy 20.9560, 0.2769, 0.1785 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 91, 211) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(172, 91,  
211) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor